The present document S3000 Quickstart does not replace a detailed study of the operating manual provided with the Safety Laser Scanner S3000. Please read the operating manual carefully before you handle the Safety Laser Scanner S3000 or a machinery safeguarded via the Safety Laser Scanner S3000.

The document describes the schedule of a configuration which is valid for the user software CDS 3.xx or higher.

**Schedule**

2 possibilities are provided:

- **Device selection / configuration**
  - Define / change
  - **Define monitoring fields**

- **Connect the scanner with the CDS**

- **New project**
  - (possible in offline mode; requested for new, not configured devices)

**Device selection**
Type of sensor, I/O-module

**Configuration**
Restart, EDM, Fields etc.
Note: pay attention to correct type of sensor

**Connect**
link CDS software via serial interface to scanner

**Read out of connected device, receive and modify configuration („Identify“)**

**Confirm configuration with safety fields and transfer**

**Check fields and function**
S3000 Quick-Start

S3000

Establish a configuration for "stationary" applications

Note: The present quickstart shows a quick and easy method to establish a configuration. The configuration is limited to the basics, options are not handled in the quickstart.

Basic knowledge about scanner functionality as well as about Windows operation is required.

Start Scanner and CDS

1. After start of the CDS program, this blank dialog window appears, showing a structure of a "project tree".

   Please ensure that the CDS version 3.xx or higher is installed.

   **Note:** The numbers of the interfaces COM1 and COM4, as shown, are PC specific and may be different with the ones in your window view.

2. Click on free **COM Port** (select) and click on button **Add device**
Device selection wizard starts

select **S3000 Laser scanner**

This window appears.

select
- **Sensor head**
- **I/O module**
- **Software package**

(according your device type)

The displayed type code automatically adjusts regarding your selection. Verify displayed type code with type code of device.

The main window appears again, the selected device is presented at the COM-port.

click on **Scanner-Symbol** (select) in project tree

and click on button **Open device window**
Now, the device window appears in which the individual functions should be parametrized. For navigation, a tree structure is provided on left side of the window.

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click on **System parameters**

To the right, a view of register cards appears additional to the tree structure which may be used to navigate alternatively between the individual functions.

In the dialog window **System parameters** you can edit specific names for

- application
- device
- user

change to card **Resolution/scanning range** and select

**Application variant stationary**

**Resolution** for Quickstart 70mm (what should be detected?)

**Note:**
While selecting the a.m. parameters, please pay attention to the scanning range, depending on resolution and response time.
Selections for control inputs only, if more than one safety field should be used.

For quickstart, no control inputs are used.

**Note:**
The configuration could be extended for control inputs to a later stage.

In the following step, the integrated external device monitoring EDM could be selected or deselected.

**Note:**
For quickstart with the SICK-Democase and UE10 Safety Relay, select with EDM.

In register card Restart select

*without restart interlock*
In register card
Application diagnostic output
select

On contamination or error

In this register card, the monitoring cases and field sets are defined.

For quickstart only 1 field set will be used.

select in navigation tree Field set 1

If desired, edit a name for the field set.

After selecting field set, the editor starts as shown.

For orientation, the position of the scanner is displayed in the bottom section (top down view)

1: Via this two buttons, one can change between view of protection field (red) and view of warning field (yellow).

2: Selection of grafical tool "Freehand line" (individual points), "Straight line" and "Sector of a circle".

Recommendation for quickstart: Freehand line
After selection of **Protection field** just set the field points via mouse click.

For orientation, the layout of the protective field is displayed in the background (grey).

In the register card **cases** the monitoring cases could be configured (i.e. combination of input signals and allocated field sets).

For quickstart only 1 case (no edit necessary)

For quickstart, no definition of control inputs.
eventually, the name of the monitoring case could be defined.

The next step allows the allocation of field sets, no changes for quickstart.

Close device window.
The main window appears again.

Click on (select) the COM- port which carries the device symbol

Click on button **Connect project**

Now, CDS starts the interface connection to the connected device and carries out a so called project verification.

After successful connection, the wording of the device in the navigation tree appears in blue letters.

**Note:**
If connections has failed or the configuration does not match, the wording appears in red letters, the CDS displays informations accordingly.

Now, the draft configuration can be transferred to the device.

Right mouse click on the **device symbol** (follow the menu) or click on **button**

This window appears after confirming the transfer.

Select **Authorised client** and edit **Password**.

Password factory setting: SICKSAFE
Before the final transfer into the device takes place, a **configuration report** will be shown. 

Please verify all settings!

Then, release configuration via button **Release**

The scanner receives the configuration finally.

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After successful transfer, the main window appears again.

Open **Device window** again (see above)

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In device window, select **Data recorder**

The online presentation of the monitoring fields and the active scanline of the device (blue line) are displayed live.

The device window can be closed at any time.
Close device window and **save the project (configuration)** in the PC.